

10/035,368
LYCOOK 10/16/06
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d his

(FILE 'HOME' ENTERED AT 10:44:08 ON 16 OCT 2006)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 10:44:34 ON 16
OCT 2006

L1 6 S (ANTIBOD? ARRAY) AND PATHOGEN
L2 6 DUPLICATE REMOVE L1 (0 DUPLICATES REMOVED)
L3 10294 S ARRAY AND PATHOGEN?
L4 1040 S L3 AND ANTIBOD?
L5 618 S L4 AND PROTEIN?
L6 20 S L5 AND LYSATE?
L7 9 DUPLICATE REMOVE L6 (11 DUPLICATES REMOVED)
L8 9 S L7 NOT L2

=>

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AN 1984:301866 BIOSIS

DN PREV198478038346; BA78:38346

TI STRUCTURAL AND IMMUNOCHEMICAL HOMOGENEITY OF AEROMONAS-SALMONICIDA LIPO
POLY SACCHARIDE.

AU CHART H [Reprint author]; SHAW D H; ISHIGURO E E; TRUST T J

CS DEPARTMENT OF BIOCHEMISTRY AND MICROBIOLOGY, UNIVERSITY OF VICTORIA,
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SO Journal of Bacteriology, (1984) Vol. 158, No. 1, pp. 16-22.
CODEN: JOBAAY. ISSN: 0021-9193.

DT Article

FS BA

LA ENGLISH

AB Sodium dodecyl sulfate-polyacrylamide gel electrophoresis was used to
analyze the lipopolysaccharides of typical and atypical strains of the
fish pathogen *A. salmonicida*. ³²P intrinsically radiolabeled
lipopolysaccharide in sarcosinate-extracted outer membrane preparations,
Ag-stained lipopolysaccharide in proteinase K-digested outer
membrane preparations and whole cell lysates and purified
lipopolysaccharide displayed O-polysaccharide chains which were unusually
homogeneous with respect to chain length. Chemical analysis revealed that
the sugar composition of the smooth lipopolysaccharide purified from 3
typical strains was similar. Immunoblotting and immunofluorescent
staining with polyclonal and monoclonal antibody showed that the
O-polysaccharide chains were strongly immunogenic and were antigenically
cross-reactive on typical and atypical strains from diverse origins.
Immunofluorescence analysis and phage binding studies demonstrated that a
number of these O-polysaccharide chains traversed the surface
protein array of virulent strains of *A. salmonicida* and
were exposed on the cell surface.

CC Radiation biology - Radiation and isotope techniques 06504
Ecology: environmental biology - Water research and fishery biology
07517
Comparative biochemistry 10010
Biochemistry methods - Lipids 10056
Biochemistry methods - Carbohydrates 10058
Biochemistry studies - General 10060
Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Lipids 10066
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Biophysics - Molecular properties and macromolecules 10506
Biophysics - Membrane phenomena 10508
Enzymes - Methods 10804
Morphology and cytology of bacteria 30500
Physiology and biochemistry of bacteria 31000
Microbiological apparatus, methods and media 32000
Virology - Bacteriophage 33504
Immunology - General and methods 34502
Immunology - Bacterial, viral and fungal 34504
Medical and clinical microbiology - Bacteriology 36002

IT Major Concepts
Biochemistry and Molecular Biophysics; Cell Biology; Immune System
(Chemical Coordination and Homeostasis); Membranes (Cell Biology);
Physiology

IT Miscellaneous Descriptors
FISH PATHOGEN OUTER MEMBRANE O POLY SACCHARIDE CHAINS CELL
SURFACE EXPOSURE PHAGE BINDING/

ORGN Classifier
Viruses 03000
Super Taxa
Microorganisms
Taxa Notes

Microorganisms, Viruses

ORGN Classifier

Vibrionaceae 06704

Super Taxa

Facultatively Anaerobic Gram-Negative Rods; Eubacteria; Bacteria;
Microorganisms

Taxa Notes

Bacteria, Eubacteria, Microorganisms

ORGN Classifier

Pisces 85200

Super Taxa

Vertebrata; Chordata; Animalia

Taxa Notes

Animals, Chordates, Fish, Nonhuman Vertebrates, Vertebrates